

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-20

WASTE DISCHARGE REQUIREMENTS
FOR
ALLIED CHEMICAL CORPORATION,
RICHMOND, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

- A. This Board prescribed requirements for Allied Chemical Corporation, called the discharger below, in Resolution No. 630 adopted on January 21, 1965.
- B. This discharge consists of:
 - 1. Waste "A", which contains:
 - a. .07 million gallons per day (mgd), average flow (.2 mgd maximum) of industrial waste from the manufacture of sulfuric acid and sulfur;
 - b. Approximately .007 mgd of cooling tower blowdown;
 - c. Washdown and surface drainage from production, loading and storage areas and raw sulfur stockpile.
 - 2. Waste "B" is solid waste, primarily Sodium sulfates, which precipitates in process boilers.
- C. Waste "A" is discharged, after neutralization, into a tidal drainage ditch on the discharger's property which merges with Herman's Slough approximately 5000 feet downstream. The discharge occurs over a weir installed across the ditch.
- D. Waste "B" is spread on the plant grounds and periodically covered with dirt.
- E. The Board adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin on June 17, 1971.
- F. The beneficial uses of San Pablo Bay, Herman's Slough and contiguous tidal drainage courses include:
 - Hunting
 - Hiking, wading and pleasure boating
 - Fish, shellfish and wildlife propagation and sustenance, and waterfowl and migratory bird habitat and resting
 - Esthetic enjoyment.
- G. Land within 1000 feet of the discharge point is used for industry and transportation.
- H. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
- I. The Board, in a public meeting on April 25, 1972, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, Allied Chemical Corporation shall comply with the following:

A. Discharge Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of Waste "A" shall not cause:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place;
 - b. Bottom deposits or aquatic growths at any place;
 - c. Alteration of temperature, turbidity or apparent color beyond present natural background levels in waters of the State at any place;
 - d. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
 - e. Tidal waters of the State to exceed the following limits of quality at any place:

Dissolved oxygen

Minimum - 5.0 mg/l
Annual median - 80% saturation

When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.

Toxic or other deleterious substances

None shall be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

- f. Tidal waters of Herman's Slough to exceed the following limits of quality at any place:

pH

0.1 pH unit, maximum change from natural ambient

3. Waste "A" as discharged to waters of the State shall meet these quality limits at all times:

- a. In any grab sample:

pH

7.0 minimum
8.5 maximum

Dissolved sulfide

0.1 mg/l, maximum

Settleable matter

The arithmetic average of any six or more samples collected on any day

0.5 ml/l/hr., maximum

80% of all individual samples
collected during maximum daily
flow over any 30-day period

0.4 ml/l/hr., Maximum

Any sample

1.0 ml/l/hr., Maximum

Temperature

20° F, maximum increase above
ambient tidal receiving water
temperature.

b. In any representative set of samples:

Toxicity: Survival of test fishes in 96-hour bioassays of the waste discharged

Any determination

70%, minimum

Average of any three or more
consecutive determinations
made during any 21 or more days

90%, minimum

B. Discharge Prohibitions

1. The discharge of Waste "B", except at an approved land disposal site, is prohibited.

C. Provisions

1. Allied Chemical Corporation shall comply with the Discharge Specifications and Prohibitions of this Order forthwith and submit to this Board by May 28, 1972 a report delineating what actions have been or will be taken to achieve compliance and a schedule for those actions. The corporation shall take immediate corrective actions towards compliance with the pH specifications of this Order.
2. This Order rescinds Resolution No. 630.
3. This Order includes items 1,2,6, and 7 of the attached "Reporting Requirements" dated August 28, 1970.
4. This Order includes items numbered 1 through 7 of the attached "Notifications" dated January 6, 1970.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on April 25, 1972.

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

August 28, 1970 .

REPORTING REQUIREMENTS

1. This Board requires the discharger to file technical reports on self-monitoring work performed according to detailed specifications developed pursuant to the Regional Board's Resolution No. 70-43. (Reference: Section 13267(b) and 13268, California Water Code.)
2. This Board requires the discharger to file a written report within 90 days after the average dry-weather waste flow for any month equals or exceeds 80% of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:

Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for that day.

The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of his facilities.

The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units. (Reference: Sections 13260, 13267(b) and 13268, California Water Code.)

3. This Board requires the discharger to file a time schedule for engineering studies on facilities needed to comply with the Board's receiving water objective of 5.0 mg/l of dissolved oxygen and/or to file a time schedule for deciding upon the feasibility of participating in regional water quality control systems, if he does not meet that dissolved oxygen objective after providing waste treatment facilities which comply with the effluent BOD requirement prescribed elsewhere in this Resolution. (Reference: Sections 13267(b) and 13268, California Water Code.)
4. This Board requires the discharger to file technical reports on studies into correcting violations of the Board's water quality objectives caused by discharging combined storm water and sewage. Specifications for these studies shall be developed pursuant to the Board's Resolution No. 70-43. (Reference: Sections 13267(b) and 13268, California Water Code.)
5. This Board requires the discharger to file written reports within 15 days after each calendar quarter to include:

Name of and number of lots in each subdivision for which an application has been received for connection to the sewerage system. Anticipated date of connection of each subdivision to the sewerage system.

Finding and supporting data by governing body on effect of addition of each subdivision on violation of waste discharge requirements.

(Reference: Section 11551.6 Business and Professions Code and Section 13267(b) and 13268, California Water Code.)

6. This Board requires the discharger to file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge. (Reference: Sections 13260(b) and 13264, California Water Code.)
7. This Board requires the discharger to file a written technical report at least 15 days prior to advertising for bids on any construction project which would cause or aggravate the discharge of waste in violation of these requirements; said report to describe the nature, costs, and scheduling of all actions necessary to preclude such discharge. In no case should any discharge of sewage bearing wastes be permitted without at least primary treatment and chlorination. (Reference: Sections 13267(b) and 13268, California Water Code.)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

January 6, 1970

NOTIFICATIONS

1. This Board requests the discharger to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the discharger.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include waste waters over which the discharger has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under Federal, State, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
4. This Board will prescribe more restrictive requirements for this waste discharge if necessary:
 - To achieve or maintain dissolved oxygen concentration of at least 5.0 mg/l in tidal waters of the San Francisco Bay System pursuant to Resolution No. 67-30,
 - To protect shellfishing areas which the Board designates pursuant to Resolution No. 803,
 - To protect the beneficial water uses, and to achieve other objectives adopted in the resolutions cited above.
5. This Board will review these requirements periodically, as required by law, and will notify the responsible persons before doing so. (Reference: Section 13263(e), California Water Code.)
6. The water quality parameters used in this resolution are as defined in the latest edition of "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association.
7. The discharger is advised that this Board will use the general concepts of Phase I of the plan recommended by the Final San Francisco Bay-Delta Program Report as guidelines in reviewing any application for construction grants for sewerage facilities proposed to comply with these requirements, and if the discharger intends to make such application he must demonstrate the compatibility of the proposed facilities with the general concepts of the Bay-Delta Program.